

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A digital coaxial cable system comprising:
a building local area network comprising at least three a plurality of clients, at least three universal client interface adapters, at least one coaxial cable, and at least one carrier modulated digital signal, in which:
~~a plurality of universal client interface adapters,~~ one universal client interface adapter of
the at least three adapters is in communication with at least one client of the at least three clients and in communication with at least one two other of the universal client interface adapters, which are, respectively, in communication with at least one other of the clients of the network;
the at least one coaxial cable is coupled between a pair of the universal client interface adapters, the at least one coaxial cable having an operating frequency spectrum, the operating frequency spectrum having at least a first portion and a second portion, the second portion operating at a frequency greater between 1000 MHz and 2000 Mhz than 1000 MHz; and
the at least one carrier modulated digital signal having a frequency that occupies the second portion of the operating frequency of the coaxial cable, the at least one carrier modulated digital signal transmitted in the coaxial cable coupled between the pair of universal client interface adapters, ~~the at least one carrier modulated signal having a center frequency about 1350 MHz; and~~

the at least three universal client interface adapters to provide, through the modulated digital signal, within the second portion of the operating frequency of the cable, bidirectional time division multiple access communication between the at least three clients of the local area network.

2. (Canceled)

3. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim 1 wherein the at least one carrier modulated digital signal is an in-home signal and the coaxial cable is tapped off of a public cable network.

4. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim 3 further comprising a low pass filter coupled upstream of the in-home signal.

5. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim 4, the low pass filter having a cut off frequency less than 1000 MHz.

6. (Canceled)

7. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim 1 wherein the at least one carrier modulated digital signal is an in-home signal, the cable LAN further comprising a low pass filter coupled upstream of the in-home signal to a public cable network, wherein the carrier modulated digital signal is generated downstream of the low pass filter.

8. (Canceled)

9. (Canceled)

10. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim [[9]]1 wherein the carrier modulated digital signal operating frequency is between 1000 MHz and 2000 MHz.

11. (Canceled)
12. (Currently Amended) The ~~eable LAN~~digital coaxial cable system of claim [[9]]1 wherein the carrier modulated digital signal operating frequency has a bandwidth of at least 5 MHz.
- 13-24. (Canceled)
25. (Currently Amended) A method for communicating, within a site-based local area network, between a first universal client interface adapter and a second universal client interface adapter coupled by a coaxial cable, the method comprising:
receiving digitized data in the first universal client adapter from a client;
processing the digitized data within the first universal client interface adapter into a carrier modulated, time-division-multiplexed digital signal having a signal operating frequency that is between 1000 MHz and 2000 MHz with a center frequency about 1350 MHz; and
communicating, through at least a portion of the site-based local area network, the carrier modulated digital signal from the first universal client interface adapter to the second universal client interface adapter through the coaxial cable.
26. (Original) The method of claim 25, wherein processing the digitized data comprises:
modulating the digitized data into an analog wave form;
converting the modulated data into an analog signal having an intermediate frequency;
increasing the intermediate frequency to a frequency that is greater than the signal cut-off frequency; and
amplifying the power of the signal.

27. (Canceled)
28. (Currently Amended) A cable ~~LAN~~communication system comprising:
a site-based local area network comprising a plurality of client devices, a plurality of
universal client interface adapters, and at least one coaxial cable;
~~at least one client device of the plurality of client devices to transmit~~transmitting a digital
 data signal to a universal client interface adapter of the plurality of adapters;
 the universal client interface adapter ~~to process~~processing the digital data signal into a
 carrier modulated digital signal, disposed in a time-slot of a time-division multiplexing
scheme, with an operating frequency between 1000 MHz and 2000 MHz ~~with a center~~
~~frequency about 1350 MHz;~~ and
~~the at least one coaxial cable to connect~~connecting the universal client interface adapter
 to at least one additional universal client interface adapter of the plurality of adapters
 and ~~to communicate~~communicating the carrier modulated digital signal, disposed
within the time-slot, from the universal client interface adapter to the at least one
 additional universal client interface adapter~~[[.]]; and~~
~~the at least one coaxial cable to communicate another carrier-modulated digital signal, at~~
~~the operating frequency, disposed within a different time-slot of the time-division~~
~~multiplexing scheme, from the at least additional universal client interface adapter to~~
~~the universal client interface adapter.~~
29. (Canceled)
30. (Currently Amended) The cable ~~LAN~~communication system of claim 28 wherein the
 carrier modulated digital signal operating frequency has a center frequency about 1350 MHz~~is~~
~~between 1000 MHz and 2000 MHz.~~

31. (Canceled)

32. (Currently Amended) The cable ~~LAN~~communication system of claim 28 wherein the carrier modulated digital signal has a bandwidth of at least 5 MHz.

33. (Currently Amended) The cable ~~LAN~~communication system of claim 28 wherein a normal coaxial cable system transmits signals external to the cable LAN.